

PATENT APPLICATION

for:

**"Wire-guide/nozzle assembly for a robotic TIG welding torch"**

in the name of:

LA SOUDURE AUTOGENE FRANCAISE

and

L'AIR LIQUIDE, Société Anonyme  
à Directoire et Conseil de Surveillance  
pour l'Etude et l'Exploitation des Procédés Georges  
Claude

Inventors: A. Borne and J.M. Fortain

ABSTRACT

The invention relates to a wire-guide/nozzle assembly (11, 13) for an electric arc welding torch, comprising at least one nozzle (11) for delivering gas and at least one wire-guide system (13) for guiding at least one consumable wire, characterized in that the downstream end (20) of the wire-guide system (13) runs into the nozzle (11). The peripheral wall of the nozzle (11) has at least one cut-out (10) through which the wire-guide system (13) passes. The wire-guide system (13) is fastened to the nozzle (11). The TIG welding torch comprises a wire-guide/nozzle assembly (11, 13).

Figure 3